

Virtualization Software Standard

EA Technology Standard TRM 4.17.865.001

Status: Pending Approval

Analysis: (Virtualization Overview, EA TRF, Gartner and Burton Reports)

Effective Date: Nov 1, 2009

Next Review Date: Nov 1, 2010

Approved By: Enterprise Architecture Standards Workgroup

Introduction

The need for an Enterprise License Agreement (ELA) for virtualization software has many business drivers. The business drivers identified by the Office of the Chief Information Officer (OCIO) include:

- Data center consolidation;
- Reduction in the number of physical servers in the data centers;
- Reduction in energy utilization by servers;
- Faster server deployment and provisioning;
- Standardization of server, operating system, and virtualization software environments, and;
- Overall reductions in capital and operating expenses.

The virtualization environment has been selected on the premise that management tools and integration with existing infrastructure is properly supported for the State server environments.

Standard

The standard virtualization operating environment for the State includes the following environments from VMware and Microsoft

- VMware Infrastructure Enterprise
- VMware ESXi
- VMWare Server
- VMware vSphere
- VMware vCenter Server:
- Microsoft Windows 2008 Hyper-V
- Microsoft System Center Virtual Machine Manager 2008

Authorities

Governor's Reorganization Plan Statutory Provision SEC. 17. Section 11545 of the Government (b) The duties of the State Chief Information Officer shall include, but are not limited to, all of the following: (2) Establishing and enforcing state information technology strategic plans, policies *policies*, standards, and enterprise architecture.

Implementation:

The virtualization standard environments and associated tools are to be used for the creation of

planned X86 based virtual environments. As with the implementation of any physical server, all aspects of security and protection of data must be adhered to.

Exceptions to these and other standards can be applied for by following the OCIO EA Compliance Component Instructions guidelines found in the Enterprise Architecture Developers Guide.